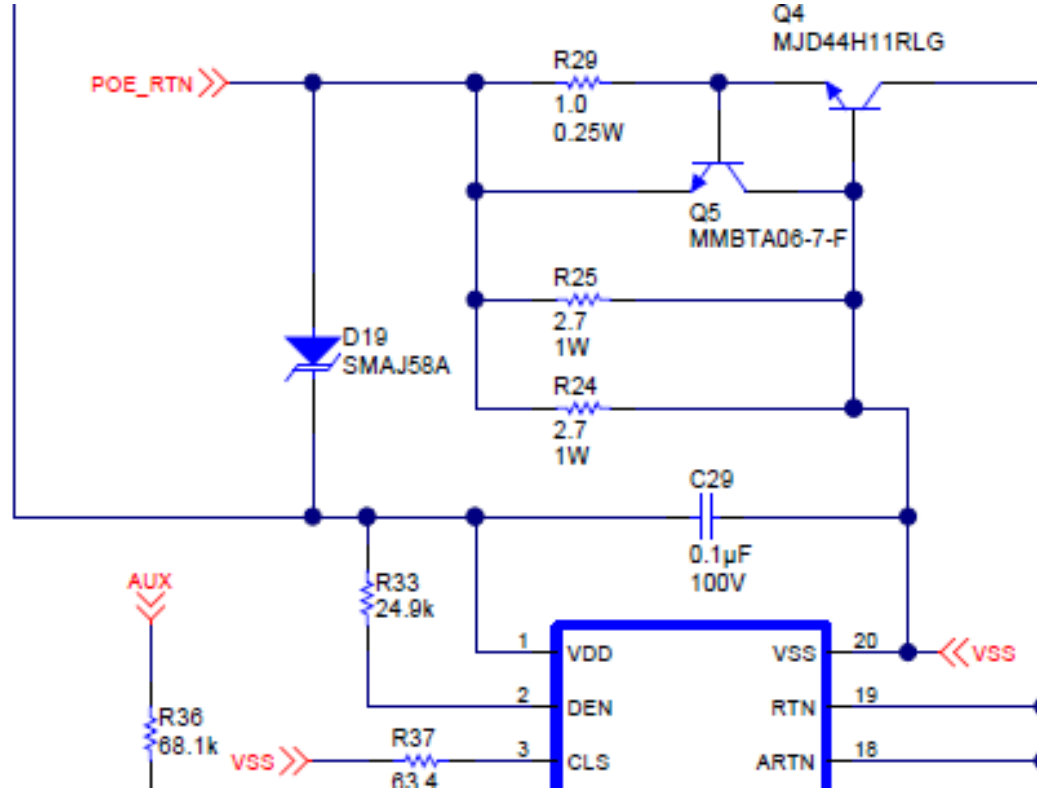


Current Booster Solutions

Booster Circuit Design Considerations



The current booster circuit TI uses is current based and turns on when more current is needed by the system. This makes the design more robust and accurate

Booster Circuit Design Considerations

- **When is it needed?**

- Some solutions require IC-specific feature and higher power

Example TPS23751's sleep mode in 50W application.

- **Quality Performance of Booster Circuit**

- There is NO risk with the current booster circuit
 - Design has been used in TI's high power PDs and PSEs since 2005.
 - No functional failures can be attributed to the current booster circuit
 - PD design with current booster passes SIFOS testing.

- **Cost Considerations**

- NPN current booster circuit is a low cost addition (~10c) in the overall system solution